



CIVIL-TECH CONSULTANTS & ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC - 17025 : 2005

Job No.: CTCE/BBMP/W.No.11/KS/CEMENT/2013-14

Date: 24.03.2014

TEST REPORT



CLIENT	:	Asst. Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
AGENCY	:	Mr. K. Satish (N S Infrs), Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to CC Roads and Drains and Providing Covering Slab at Hosabalunagara in Ward No.11 (Kuvempunagara) Vidyanarayapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VSD/PR/457/2/2013-14 Dated: 19.03.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	



Note:

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24/3/14
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Job No.: CTCE/BBMP/W.No.11/KS/SAND/2013-14



: 24.03.2014

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Agency : Mr. K. Satish (N S Infrass), Contractor, Bangalore.
Name of Work : Improvements to CC Roads and Drains and Providing Covering Slab at Hosabalunagara in Ward No.11 (Kuvempunagara) Vidyananyapura Sub Division, BBMP, Bangalore.
Reference : AEE/VSD/PR/457/2/2013-14 Dated: 19.03.2014
Date of Testing : 24.03.2014
Material : Sand

Total Wt. of Aggregates 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	88	4.4	4.4	95.6	90-100
2.36	385	19.3	23.7	76.4	75-100
1.18	321	16.1	39.7	60.3	55-90
600 Micron	452	22.6	62.3	37.7	35-59
300 Micron	418	20.9	83.2	16.8	8-30
150 Micron	258	12.9	96.1	3.9	

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Job No.: CTCE/BBMP/W.No.11/KS/AGG/2013-14



: 24.03.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Agency : Mr. K. Satish (N S Infrs), Contractor, Bangalore.
Name of Work : Improvements to CC Roads and Drains and Providing Covering Slab at Hosabalunagara in Ward No.11 (Kuvempunagara) Vidyananyapura Sub Division, BBMP, Bangalore.
Reference : AEE/VSD/PR/457/2/2013-14 Dated: 19.03.2014
Date of Testing : 24.03.2014
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0.0	100	100
40	958	3.8	3.8	96.17	95-100
20	16254	65.0	68.8	31.15	30-70
10	5028	20.1	89.0	11.04	10-35
4.75	2452	9.8	98.8	1.23	

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CIVIL-TECH CONSULTANTS & ENGINEERS

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NABL - Accredited Laboratory as per ISO / IEC - 17025 : 2005

Job No.: CTCE/BBMP/W.No.11/KS/STEEL/2013-14

24.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client : Asst. Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Agency : Mr. K. Satish (N S Infrs), Contractor, Bangalore.

Name of the Work : Improvements to CC Roads and Drains and Providing Covering Slab at Hosabalunagara in Ward No.11 (Kuvempunagara) Vidyananyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/457/2/2013-14 Dated: 19.03.2014

Date of Test : 24.03.2014

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	514	547	12.95	O.K	O.K

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NABL - Accredited Laboratory as per ISO / IEC - 17025 : 2005

Job No.: CTCE/BBMP/W.No.11/KS/CUBE/2013-14



27.04.2014

TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Agency : Mr. K. Satish (N S Infrs), Contractor, Bangalore.

Name of the work : Improvements to CC Roads and Drains and Providing Covering Slab at Hosabalunagara in Ward No.11 (Kuvempunagara) Vidyananyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/457/2/2013-14 Dated: 19.03.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	30.03.2014	27.04.2014	8.145	476.5	21.18
2	30.03.2014	27.04.2014	8.263	493.6	21.94
3	30.03.2014	27.04.2014	8.349	510.9	22.71

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